BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements of roads and drain in low lying area of Bhadrappa layout Handigudu main and cross roads in ward no. 08 under flood relief fund.**

			Estimate Cost:					4730000	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	Removing B.S Slab of Drain and stacking **Page No. 28 / Item No. 5.32 / PWD SR 2013-14**	sqm							
	a)cross road from Ring road to 9th cross road-L side		1	35.00	0.90		31.50		
	b)cross road from Ring road to 9th cross road-Rside		1	50.00	0.90		45.00		
	c) maruthinagara 9th main, left side 2nd cross road		2	100.00	0.90		180.00		
	d) 9th cross road (Handigud road)-Left side		1	30.00	0.90		27.00		
							283.50	50.11	**14207.00**
	Basic Rate	46.40							
	Area Weightage @ 8%	3.71							
	Total	**50.11**							
2	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 28 / Item No. 5.33 / PWD SR 2013-14**	Sqm							
	85% of quantity vide item No. 1		Qty Vide Item No. 1				**240.97**	70.04	**16877.00**
	Basic Rate	64.85							
	Area Weightage @ 8%	5.19							
	Total	**70.04**							
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete - 7.5 cms thick (P.No.28, I.No.5.31.1 of PW,P&IWTD SR 2013-14.)								
	Balance qty vide item No. 1 & 2	sqm					**42.53**	343.44	**14607.00**
	Basic Rate Rs.	318.00							
	Add 8% A.W Rs.	25.44							
	Total Rate Rs.	343.44							
4	KSRRB 300-2 : Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3 **Page No. 152 / Item No. 19.2 / PWD SR 2013-14**	Cum							
	Desilting of drain								
	a)cross road from Ring road to 9th cross road-L side		1	140.0	0.60	0.60	50.40		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	b)cross road from Ring road to 9th cross road-Rside		1	140.0	0.60	0.60	50.40		
	c) maruthinagara 9th main, left side 2nd cross road		2	120.0	0.60	0.60	86.40		
	d) 9th cross road (Handigud road)-Left side		1	116	0.60	0.60	41.76		
	RCC culverts								
	culverts at three locations		3	5.00	1.20	1.50	27.00		
	skew culvert on Handigud road		1	6.50	1.20	1.50	11.70		
	Concrete road								
	1) cross road from Ring road to 9th cross road		1	170.0	5.80	0.40	394.40		
	2)maruthinagara 9th main, left side 2nd cross road		1	120.0	5.20	0.40	249.60		
							901.73	90.72	**81805.00**
	Basic Rate	84.00							
	Area Weightage @8%	6.72							
	Total	**90.72**							
5	KSRRB M300-53: Construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) **MORTH specification No. 305, No. 159 / Item No. 19.60 / PWD SR 2013-14**	Cum							
	RCC culverts								
	culverts at three locations		3	5.00	1.20	0.25	4.50		
	skew culvert on Handigud road		1	6.50	1.20	0.25	1.95		
	Concrete road								
	1) cross road from Ring road to 9th cross road		1	170.00	5.8	0.30	295.80		
	2)maruthinagara 9th main, left side 2nd cross road		1	120.00	5.2	0.30	187.20		
							489.45	166.32	**81405.00**
	Basic Rate	154.00							
	Area Weightage @ 8%	12.32							
	Total	**166.32**							
6	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using **40mm** and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, **in foundation and plinth**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **Page No. 12 / Item No. 4.3 PWD SR - 2013-14**	Cum							
	Raising of drain								
	a)cross road from Ring road to 9th cross road-L side		1	140	0.6	0.15	12.60		
	b)cross road from Ring road to 9th cross road-Rside		1	140	0.6	0.15	12.60		
	d) 9th cross road (Handigud road)-Left side		1	116	0.6	0.15	10.44		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	RCC culverts								
	culverts at three locations		3	5.00	1.2	0.15	2.70		
	skew culvert on Handigud road		1	6.50	1.2	0.15	1.17		
	Concrete road								
	1) cross road from Ring road to 9th cross road		1	170.00	5.8	0.15	147.90		
	2)maruthinagara 9th main, left side 2nd cross road		1	120.00	5.2	0.15	93.60		
							281.01	4290.84	**1205769.00**
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	4290.84							
7	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2013-14**	Sqm							
	RCC culvert - side walls								
	culverts at three locations		12	5.00		0.90	54.00		
	skew culvert on Handigud road		4	6.50		0.90	23.40		
	RCC culvert - deck slab								
	culvert at six locations - bottom side		3	5.00	1.00		15.00		
	culvert No. 7 - bottom side		1	6.50	1.00		6.50		
	culvert at six locations - alround sides		3	12.00		0.23	8.10		
	culvert No. 7 - alround sides		1	15.00		0.23	3.37		
							110.37	271.08	**29919.00**
	Basic Rate	251.00							
	Area Weightage @ 8%	20.08							
	Total	**271.08**							
8	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 19 / Item No. 4.48.1/ PWD SR 2013-14**	Cum							
	RCC culverts								
	bottom								
	culverts at three locations		3	5.00	1.00	0.15	2.25		
	skew culvert on Handigud road		1	6.50	1.00	0.15	0.97		
	side walls								
	culverts at three locations		6	5.00	0.20	0.90	5.40		
	skew culvert on Handigud road		2	6.50	0.20	0.90	2.34		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Deck slab								
	culverts at three locations		3	5.00	1.00	0.23	3.37		
	skew culvert on Handigud road		1	6.50	1.00	0.23	1.46		
	Concrete road								
	1) cross road from Ring road to 9th cross road		1	170.00	5.80	0.15	147.90		
	2)maruthinagara 9th main, left side 2nd cross road		1	120.00	5.20	0.15	93.60		
							257.29	6464.9	**1663349.00**
	Basic Rate	5986.00							
	Area Weightage @ 8%	478.88							
	Total	6464.88							
9	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **190 / Item No. 22.7/ PWD SR 2013-14**	Sqm							
	Concrete road				av.				
	1) cross road from Ring road to 9th cross road		1	170.00	5.80		986.00		
	2)maruthinagara 9th main, left side 2nd cross road		1	120.00	5.20		624.00		
				290.0	5.50		**1610.00**	91.80	**147798.00**
	Basic Rate	85.00							
	Area Weightage @ 8%	6.80							
	Total	**91.80**							
10	Providing groove cutting for width of 5mm to 10mm and depth 80mm -100mm including cost of cutting machine , generater &HOM of machinery ,including cost of blade , coolant etc ., including cleaning of groove &providing sand and hot bitumen fillars and filler metal etc., including cost of conveyance of all materials , labour lead and lift charges and all other incident charges as per drawing p no.								
		Rmtr	20	5.50			110.00		
							110.00	118.80	13068.00
	Basic Rate Rs	110.00							
	Area Weightage @ 8%	8.8							
	Total	118.8							
11	KSRB 5-14 : Providing and constructing non-load bearing wall with cement concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x10x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P. No. 28 Item No. 5.28 SR 2013-14)	**Sqm**				av			

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	a)cross road from Ring road to 9th cross road-L side		1	140.00		0.20	28.00		
	b)cross road from Ring road to 9th cross road-Rside		1	140.00		0.20	28.00		
	c) maruthinagara 9th main, left side 2nd cross road		2	120.00		0.20	48.00		
	d) 9th cross road (Handigud road)-Left side		1	116.00		0.20	23.20		
							127.20	663.12	84349
	Basic Rate	**614.00**							
	Area Weightage @ 8%	**49.12**							
	Total	**663.12**							
12	Providing and laying in position reinforced cement concrete M20 mix with stone aggregates 20mm and downsize for slab (including steel reinforcement) including centering and shuttering, maching mixed, concrete laid in layers not exceeding 15cm thick well compacted cost of all materials, labour, HOM of machineries, curing complete as per specifications. (Approved data rate enclosed)	sqm							
	a)cross road from Ring road to 9th cross road-L side		1	140.0	0.90		126.00		
	b)cross road from Ring road to 9th cross road-Rside		1	140.0	0.90		126.00		
	c) maruthinagara 9th main, left side 2nd cross road		2	120.0	0.90		216.00		
	d) 9th cross road (Handigud road)-Left side		1	116.0	0.90		104.40		
							572.40	1245.0	**712638.00**
13	KSRB 4.9.2: Providing **TMT steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19 / Item No. 4.46.2 PWD SR 2013-14**	Qntl							
	for culverts								
3	along the culvert, 12mm dia bar	kg	15	4.80	@	0.89	192.24		
1		kg	15	6.30	@	0.89	84.10		
3	across the culvert, 12mm dia bar	kg	32	2.20	@	0.89	187.96		
1		kg	42	2.20	@	0.89	82.23		
	for deck slab								
3	16mm dia cranked bar	kg	34	1.20	@	1.58	193.39		
3	16mm dia uncranked bar	kg	33	0.90	@	1.58	140.77		
6	10mm dia distribution top and bottom	kg	7	4.90	@	0.62	127.59		
1	16mm dia cranked bar	kg	44	1.20	@	1.58	83.42		
1	16mm dia uncranked bar	kg	43	0.90	@	1.58	61.14		
2	10mm dia distribution top and bottom	kg	7	6.40	@	0.62	55.55		
							1208.4		
		Qtl					**12.08**	7450.92	**90007.0**
	Basic Rate	6899.00							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Area Weightage 8%	551.92							
	Total	**7450.92**							
9	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum					901.73		65560.00
			Vide Item No. 1				~~588.80~~	72.71	~~42809.00~~
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
10	KRIDL CHARGES 11%								**4221358**
									464349
11	Third party charges 1%								**42214**
12	Miscellaneous and other Charges	L/S							**2079.00**
								Total	**4730000**

(Rs. Forty Seven Lakhs Thirty Thousand Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2013-14.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

D.K. Madhu Sudhan.
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction for Rs. 47.30 Lakhs
Forty Seven Lakhs Thirty Thousand only.

03/14-15 06/9/14
03/14-15. D: 06/9/14

ADMINISTRATIVELY SANCTIONED FOR Rs 47.30 Lakhs
Rupees ~~Forty Seven lakhs~~ thirty thousand only
Under

Registered as EE ( ) No 3 9
Subject to conditions contained in enclosed memo EE ( ) No /91
Dt Estimate A/S sanctioned
Addl Comm (Y2) AS No 1031/14-15
dated 5-9-2014 Rs 47.30 lakhs.

Addl Commissioner
(Yelahanka Zone)
BBMP. Bangalore 92